Substitute Form PTO-1449 (Modified)					
	closure Statement pplicant	Applicant Gilbert Wolrich et al.			
(Use several sheets if necessary) (37 CFR §1.98(b))		Filing Date January 12, 2001	Group Art Unit 2183		

			U.S. Pate	nt Documents			
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
AL	AA	2002/0038403	03/2002	Wolrich et al.	\		
1	AB	3,577,189	05/1971	Cocke et al.			
	AC	3,881,173	04/1975	Larsen et al.			
	AD	4,454,595	06/1984	Cage	1		
	AE	4,471,426	09/1984	McDonough	1		
	AF	4,477,872	10/1984	Losq et al.	1		
	AG	4,569,016	02/1986	Hao et al.			
	AH	4,742,451	05/1988	Bruckert et al.			
	AI	4,755,966	07/1988	Lee et al.		1	
	AJ	4,808,988	02/1989	Burke et al.			
	AK	4,816,913	03/1989	Harney et al.		1	
	AL	4,847,755	07/1989	Morrison et al.			
	AM	4,868,735	09/1989	Moller et al.			
	AN	5,045,995	09/1991	Levinthal et al.			
	AO	5,056,015	10/1991	Baldwin et al.			
	AP	5,165,025	11/1992	Lass			
	AQ	5,170,484	12/1992	Grondalski		,,	
	AR	5,187,800	02/1993	Sutherland			
	AS	5,189,636	02/1993	Patti et al.			
	АТ	5,202,972	04/1993	Gusefski et al.			
	AU	5,220,669	06/1993	Baum et al.			
	AV	5,247,671	09/1993	Adkins et al.			
	AW	5,274,770	12/1993	Khim Yeoh et al.			
	AX	5,394,530	02/1995	Kitta			
	AY	5,428,779	06/1995	Allegrucci et al.		<i>i</i>	
V	AZ	5,463,746	10/1995	Brodnax et al.			
AL	BA	5,541,920	07/1996	Angle et al.			1

Examiner Signature /Aimee Li/	Date Considered 03/05/2007
EXAMINER: Initials citation considered. Draw line through citation if no next communication to applicant.	ot in conformance and not considered. Include copy of this form with

Substitute Form PTO-1449 (Modified)

U.S. Department of Commerce Patent and Trademark Office

## **Information Disclosure Statement** by Applicant (Use several sheets if necessary)

(37 CFR §1.98(b))

Application No. 09/760,509 Attorney's Docket No. 10559-317001 Applicant Gilbert Wolrich et al. Filing Date Group Art Unit January 12, 2001 2183

			U.S. Pate	ent Documents			
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
AL	ВВ	5,544,337	08/1996	Beard et al.	1		
1	BC	5,572,690	11/1996	Molnar et al.	1		
	BD	5,600,848	02/1997	Sproull et al.			
	BE	5,610,864	03/1997	Manning			
	BF	5,640,538	06/1997	Dyer et al.			
	BG	5,669,012	09/1997	Shimizu et al.	1		
	ВН	5,680,564	10/1997	Divivier et al.			
	ВІ	5,701,435	12/1997	Chi			
	BJ	5,724,563	03/1998	Hasegawa			
	BK	5,748,950	05/1998	White et al.			
	BL	5,802,373	09/1998	Yates et al.			
	ВМ	5,812,811	09/1998	Dubey et al.			
	BN	5,815,698	09/1998	Holmann et al.			
	ВО	5,815,714	09/1998	Shridhar et al.			
	BP	5,819,080	10/1998	Dutton et al.			
	BQ	5,832,258	11/1998	Kiuchi et al.			
	BR	5,838,975	11/1998	Abramson et al.			
	BS	5,848,276	12/1998	King et al.			
	ВТ	5,857,104	01/1999	Natarjan et al.			
	BU	5,870,597	02/1999	Panwar et al.			
	BV	5,872,963	02/1999	Bitar et al.		<del>,</del>	
	BW	5,898,866	04/1999	Atkins et al.			
	BX	5,900,025	05/1999	Sollars			
	BY	5,923,872	07/1999	Chrysos et al.			
	BZ	5,926,646	07/1999	Pickett et al.			
V	CA	5,928,358	07/1999	Takayama et al.			
AL	СВ	5,937,177	08/1999	Molnar et al.			1

ce and not considered. Include copy of this form with

Substitute Form PTO-1449 (Modified)

U.S. Department of Commerce Patent and Trademark Office

Attorney's Docket No. Application No. 10559-317001 09/760,509

Applicant

## **Information Disclosure Statement** by Applicant (Use several sheets if necessary)

(37 CFR §1.98(b))

Gilbert Wolrich et al. Filing Date Group Art Unit January 12, 2001 2183

				ent Documents			-
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
AL	cc	5,943,491	08/1999	Sutherland et al.	\		
	CD	5,944,816	08/1999	Dutton et al.			
	CE	5,946,222	08/1999	Redford			
	CF	5,956,514	09/1999	Wen et al.			
	CG	5,993,627	11/1999	Anderson et al.			
	СН	6,005,575	12/1999	Colleran et al.			
	CI	6,061,710	05/2000	Eickemeyer et al.			
	CI	6,061,711	05/2000	Song et al.		1	
	CK	6,101,599	08/2000	Wright et al.		1	
	CL	6,115,777	09/2000	Zahir et al.			
	СМ	6,139,199	10/2000	Rodriguez		\	
	CN	6,141,348	10/2000	Muntz			
	СО	6,145,123	11/2000	Torrey et al.			
	СР	6,157,988	12/2000	Dowling			
	CQ	6,195,739	02/2001	Wright et al.			
	CR	6,205,468	03/2001	Diepstraten et al.		1	
	CS	6,223,208	04/2001	Kiefer et al.			
	СТ	6,223,277	04/2001	Karguth			
	CU	6,230,119	05/2001	Mitchell		·	
	CV	6,230,230	05/2001	Joy et al.			
	CW	6,230,261	05/2001	Henry et al.			
	CX	6,259,699	07/2001	Opalka et al.			
	CY	6,275,508	08/2001	Aggarwal et al.			
	cz	6,279,066	08/2001	Velingker			
	DA	6,314,510	11/2001	Saulsbury et al.			
V	DB	6,338,133	01/2002	Schroter			
AL	DC	6,378,124	04/2002	Bates et al.			1

Examiner Signature /Aimee Li/	Date Considered 03/05/2007
EXAMINER: Initials citation considered. Draw line through citation if no next communication to applicant.	t in conformance and not considered. Include copy of this form with

Substitute Form PTO-1449 (Modified)

U.S. Department of Commerce Patent and Trademark Office

Application No. Attorney's Docket No. 09/760,509 10559-317001 Applicant

## **Information Disclosure Statement** by Applicant (Use several sheets if necessary)

Gilbert Wolrich et al.

January 12, 2001

Filing Date

Group Art Unit 2183

(37 CFR §1.98(b))

	U.S. Patent Documents								
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate		
AL	DD	6,378,125	04/2002	Bates et al.	\				
	DE	6,385,720	05/2002	Tanaka et al.					
	DF	6,401,155	06/2002	Saville et al.					
	DG	6,408,325	06/2002	Shaylor	. \				
	DH	6,446,190	09/2002	Barry et al.					
	DI	6,496,847	12/2002	Bugnion et al.					
	DJ	6,505,229	01/2003	Turner et al.					
	DK	6,523,108	02/2003	James et al.					
	DL	6,543,049	04/2003	Bates et al.					
	DM	6,560,629	05/2003	Harris					
	DN	6,560,671	05/2003	Samra et al.					
	DO	6,564,316	05/2003	Perets et al.					
	DP	6,574,702	06/2003	Khanna et al.					
	DQ	6,697,935	02/2004	Borkenhagen et al.					
	DR	6,862,676	03/2005	Knapp et al.					
	DS	6,976,095	12/2005	Wolrich et al.					
V	DT	6,983,350	01/2006	Adiletta et al.					
AL	DU	7,020,871	03/2006	Bernstein et al.			1		

	Foreign Patent Documents or Published Foreign Patent Applications								
Examiner	Desig.	Document	Publication	Country or			Trans	lation	
Initial	ID	Number	Date	Patent Office	Class	Subclass	Yes	No	
AL	DV	0 130 381	01/1985	Europe					
	- DW	0 463 855	01/1992	Europe					
	DX	0 476 628	03/1992	Europe					
	DY	0 696 772	02/1996	Europe					
V	DZ	WO 01/18646	03/2001	WIPO					
AL	EA	WO03/019399	03/2003	WIPO					

Examiner Signature	/Aimee Li/	Date Considered	03/05/2007
EXAMINER: Initials citation ext communication to ap		citation if not in conformance and not o	considered. Include copy of this form with

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10559-317001	Application No. 09/760,509	
	closure Statement pplicant	Applicant Gilbert Wolrich et al.		
(Use several si	heets if necessary)	Filing Date January 12, 2001	Group Art Unit 2183	

	Foreign Patent Documents or Published Foreign Patent Applications								
Examiner	Desig.	Document	Publication	Country or			Trans	ation	
Initial	ID	Number	Date	Patent Office	Class	Subclass	Yes	No	
AL	EB	WO03/085517	10/2003	WIPO					

	Other D	ocuments (include Author, Title, Date, and Place of Publication)
Examiner Initial	Desig. ID	Document
AL	EC	"HART, Field Communications Protocol, Application Guide", Hart Communication Foundation, pp. 1-74, (1999).
	ED	Bowden, Romilly, "What is HART?" Romilly's HART® and Fieldbus Web Site, 3 pages, (1997). <url: http:="" whathart.htm="" www.romilly.co.uk=""></url:>
	EE	Cheng, et al., "The Compiler for Supporting Multithreading in Cyclic Register Windows", <i>IEEE</i> , pp. 57-62, (1996).
	EF	Hennessy et al., Computer Organization and Design: The Hardware/Software Interface, Morgan Kaufman Publishers, pp. 116-119, 181-182, 225-227, 447-449, 466-470, 476-482, 510-519, 712, (1998).
	EG	Heuring et al., Computer Systems Design and Architecture, Reading, MA, Addison Wesley Longman, Inc., pp. 38-40, 143-171, and 285-288, (1997).
	ЕН	Hidaka, Y., et al., "Multiple Threads in Cyclic Register Windows", Computer Architecture News, ACM, New York, NY, USA, 21(2):131-142, May 1993.
	EI	Hirata, H., et al., "An Elementary Processor Architecture with Simultaneous Instruction Issuing from Multiple Threads", <i>Proc. 19th Annual International Symposium on Computer Architecture, ACM &amp; IEEE-CS</i> , 20(2):136-145, May 1992.
	EJ	Intel, "1A-64 Application Developer's Architecture Guide," Rev. 1.0, pp. 2-2, 2-3, 3-1, 7-165, C-4, and C-23, May 1999.
	EK	Koch, G., et al., "Breakpoints and Breakpoint Detection in Source Level Emulation", <i>Proc. 19th International Symposium on System Synthesis (ISSS '96), IEEE</i> , pp. 26-31 (1996).
	EL	Moors, et al., "Cascading Content-Addressable Memories", IEEE Micro, 12(3):56-66 (1992).
V	EM	Okamoto, K., et al., "Multithread Execution Mechanisms on RICA-1 for Massively Parallel Computation", <i>IEEE - Proc. Of PACT '96</i> , pp. 116-121 (1996).
AL	EN	Patterson, et al., Computer Architecture A Quantitative Approach, 2nd Ed., Morgan Kaufmann Publishers, Inc., pp. 447-449, (1996).
	EO	Paver, et al., "Register Locking in an Asynchronous Microprocessor", IEEE, pp. 351-355, (1992).
AL	EP	Philips ED - Philips Components: "8051 Based 8 Bit Microcontrollers, Data Handbook Integrated Circuits, Book IC20", 8051 Based 8 Bit Microcontrollers, Eindhoven, Philips, NL, pp. 5-19 (1991).
	EQ	Probst et al., "Programming, Compiling and Executing Partially-Ordered Instruction Streams on Scalable Shared-Memory Multiprocessors", Proceedings of the 27 <sup>th</sup> Annual Hawaiian International Conference on System Sciences, IEEE, pp. 584-593, (1994).
V	ER	Quammen, D., et al., "Flexible Register Management for Sequential Programs", <i>IEEE Proc. of the Annual International Symposium on Computer Architecture</i> , Toronto, May 27-30, 1991, vol. SYMP. 18, pp. 320-329.
AL	ES	Ramsey, N., "Correctness of Trap-Based Breakpoint Implementations", Proc. of the 21st ACM Symposium on the Principles of Programming Languages, pp. 15-24 (1994).

Examiner Signature	/Aimee Li/	Date Considered 03/05/2007							
EXAMINER: Initials citation next communication to ap	EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								
		Substitute Disclosure Form (PTO-1449							

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10559-317001	Application No. 09/760,509	
	losure Statement plicant	Applicant Gilbert Wolrich et al.		
(Use several she (37 CFR §1.98(b))	eets if necessary)	Filing Date January 12, 2001	Group Art Unit 2183	

	Other Documents (include Author, Title, Date, and Place of Publication)						
Examiner Initial	Desig. ID	Document					
AL	ET	Steven, G.B., et al., "ALU design and processor branch architecture", Microprocessing and Microprogramming, 36(5):259-278, October 1993.					
AL	EU	Young, H.C., "Code Scheduling Methods for Some Architectural Features in Pipe", Microprocessing and Microprogramming, Elsevier Science Publishers, Amsterdam, NL, 22(1):39-63, January 1988.					
AL	EV	Young, H.C., "On Instruction and Data Prefetch Mechanisms", International Symposium on VLSI Technology, Systems and Applications, Proc. of Technical Papers, pp. 239-246, (1995).					

Examiner Signature /Aimee Li/	Date Considered 03/05/2007
EXAMINER: Initials citation considered. Draw line through citation if no	ot in conformance and not considered. Include copy of this form with

### Electronic Version v18

Stylesheet Version v18.0

Title of Invention

METHOD AND APPARATUS FOR PROVIDING LARGE REGISTER ADDRESS SPACE WHILE MAXIMIZING CYCLETIME PERFORMANCE FOR A MULTI-THREADED REGISTER FILE SET

Application Number:

09/760509

2157

Confirmation Number: First Named Applicant:

Gilbert Wolrich

Attorney Docket Number:

10559-317001

Art Unit:

2183

Examiner:

Barry J. OBrien

Search string:

( 6223238 or 6223279 or 6247025 or 6256713 or 6272616 or 6275505 or 6279113 or 6289011 or 6298370 or 6307789 or 6324624 or 6345334 or 6347344 or 6351808 or 6356962 or 6373848 or 6360262 or 6389449 or 6393483 or 6415338 or 6426940 or 6427196 or 6430626 or 6434145 or 6463072 or 6532509 or 6552826 or 6560667 or 6577542 or 6584522 or 6587906 or 6606704 or 6625654 or 6629237 or 6631430 or 6631462 or 6661794 or 6667920 or 6668317 or 6681300 or 6694380 or 4023023 or 5113516 or 5363448 or 5436626 or 5600812 or 5652583 or 5717760 or 4992934

or 5450603 ).pn

## **US Patent Documents**

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
AL	1	6223238	2001-04-24	Meyer et al.	\		
	2	6223279	2001-04-24	Nishimura et al.			
	3	6247025	2001-06-12	Bacon			
	4	6256713	2001-07-03	Audityan et al.	1		
	5	6272616	2001-08-07	Fernando et al.			
	6	6275505	2001-08-14	O Loughlin et al.			
	7	6279113	2001-08-21	Vaidya			
	8	6289011	2001-09-11	Seo et al.			
	9	6298370	2001-10-02	Tang et al.			
	10	6307789	2001-10-23	Wolrich et al.			
	11	6324624	2001-11-27	Wolrich et al.			
	12	6345334	2002-02-05	Nakagawa et al.			
	13	6347344	2002-02-12	Baker et al.			
	14	6351808	2002-02-26	Joy et al.			
	15	6356962	2002-03-12	Kasper et al.			
V	16	6373848	2002-04-16	Allison et al.			
AL	17	6360262	2002-03-19	Guenthner et al.			

AL	18	6389449	2002-05-14	Nemirovsky et al.	1						
	19	6393483	2002-05-21	Latif et al.				·	_		
	20	6415338	2002-07-02	Habot	7						
	21	6426940	2002-07-30	Seo et al.							
	22	6427196	2002-07-30	Adiletta et al.	1	abla					
	23	6430626	2002-08-06	Witkowski et al.		$\mathcal{T}$					
	24	6434145	2002-08-13	Opsasnick et al.		T					
	25	6463072	2002-10-08	Wolrich et al.		T					
	26	6532509	2003-03-11	Wolrich et al.		7					
$\prod$	27	6552826	2003-04-22	Adler et al.		,					
	28	6560667	2003-05-06	Wolrich et al.			$\mathcal{T}$		_		
	29	6577542	2003-06-10	Wolrich et al.			T				
П	30	6584522	2003-06-24	Wolrich et al.			$\sqcap$				
	31	6587906	2003-07-01	Wolrich et al.				\			
П	32	6606704	2003-08-12	Adiletta et al.							
П	33	6625654	2003-09-23	Wolrich et al.							
П	34	6629237	2003-09-30	Wolrich et al.				7			
	35	6631430	2003-10-07	Wolrich et al.				$\neg \top$			
	36	6631462	2003-10-07	Wolrich et al.				1			
	37	6661794	2003-12-09	Wolrich et al.							
$\sqcap$	38	6667920	2003-12-23	Wolrich et al.				1			
	39	6668317	2003-12-23	Bernstein et al.					1		
	40	6681300	2004-01-20	Wolrich et al.					abla		
	41	6694380	2004-02-17	Wolrich et al.					$\sqcap$		
П	42	4023023	1977-05-10	Bourrez et al.					$\sqcap$		
	43	5113516	1992-05-12	Johnson							
	44	5363448	1994-11-08	Koopman Jr. et						<u> </u>	
				al.						7	
Ш	45	5436626	1995-07-25	Fijiwara						_	
	46	5600812	1997-02-04	Park						$\mathcal{L}$	
$\coprod$	47	5652583	1997-07-29	Kang						$\bot$	
	48	5717760	1998-02-10	Satterfield			L				
W	49	4992934	1991-02-12	Portanova et al.							
AL	50	5450603	1995-09-12	Davies							1

Examiner Name	Date
/Aimee Li/	03/05/2007

Electronic Version v18

Stylesheet Version v18.0

Title of Invention

METHOD AND APPARATUS FOR PROVIDING LARGE REGISTER ADDRESS SPACE WHILE MAXIMIZING CYCLETIME PERFORMANCE FOR A MULTI-THREADED REGISTER FILE SET

Application Number:

09/760509

Confirmation Number:

2157

First Named Applicant:

Gilbert Wolrich

Attorney Docket Number:

10559-317001

Art Unit:

2183

Examiner:

Barry J. OBrien

Search string:

(5937187 or 5938736 or 5940612 or 5940866 or 5946487 or 5948081 or 5951679 or 5958031 or 5961628 or 5970013 or 5978838 or 5983274 or 5996068 or 6002881 or 6009515 or 6012151 or 6014729 or 6023742 or 6058168 or 6058465 or 6067585 or 6070231 or 6072781 or 6073215 or 6076158 or 6079008 or 6079014 or 6085215 or 6085294 or 6092127 or 6092158 or 6029228 or 6112016 or 6115811 or 6134665 or 6141689 or 6141765 or 6144669 or 6145054 or 6157955 or 6160562 or 6182177

or 6195676 or 6199133 or 6201807 or 6212542 or 6212611 or 6216220 or 6223207

or 6009505).pn

### **US Patent Documents**

	ini	it	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	A	L	1	5937187	1999-08-10	Kosche et al.	1.		
			2	5938736	1999-08-17	Muller et al.			
			3	5940612	1999-08-17	Brady et al.			
			4	5940866	1999-08-17	Chisholm et al.			
			5	5946487	1999-08-31	Dangelo	1		
			6	5948081	1999-09-07	Foster			
ı			7	5951679	1999-09-14	Anderson et al.			
			8	5958031	1999-09-28	Kim			
			9	5961628	1999-10-05	Nguyen et al.			
			10	5970013	1999-10-19	Fischer et al.			
			11	5978838	1999-11-02	Mohamed et al.			
			12	5983274	1999-11-09	Hyder et al.			
			13	5996068	1999-11-30	Dwyer III et al.			
			14	6002881	1999-12-14	York et al.			
		_,	15	6009515	1999-12-28	Steele Jr.			
	V		16	6012151	2000-01-04	Mano			
	A	L	17	6014729	2000-01-11	Lannan et al.			

AL	18	6023742	2000-02-08	Ebeling et al.	1				
	19	6058168	2000-05-02	Braband	1				
	20	6058465	2000-05-02	Nguyen					
	21	6067585	2000-05-23	Hoang					
	22	6070231	2000-05-30	Ottinger					
	23	6072781	2000-06-06	Feeney et al.					
	24	6073215	2000-06-06	Snyder					
	25	6076158	2000-06-13	Sites et al.					
	26	6079008	2000-06-20	Clery III		$\prod$			
	27	6079014	2000-06-20	Papworth et al.		$\Lambda_{-}$			
	28	6085215	2000-07-04	Ramakrishnan et al.					
	29	6085294	2000-07-04	Van Doren et al.		77			
	30	6092127	2000-07-18	Tausheck	•	$\Box$			
	31	6092158	2000-07-18	Harriman et al.					
	32	6029228	2000-02-22	Cai et al.			1		
	33	6112016	2000-08-29	MacWilliams et al.			1		
	34	6115811	2000-09-05	Steele Jr.					
	35	6134665	2000-10-17	Klein et al.		丁			
	36	6141689	2000-10-31	Yasrebi					
	37	6141765	2000-10-31	Sherman		1	1		
	38	6144669	2000-11-07	Williams et al.				1	
	39	6145054	2000-11-07	Mehrotra et al.				1	
	40	6157955	2000-12-05	Narad et al.	·				
	41	6160562	2000-12-12	Chin et al.					
	42	6182177	2001-01-30	Harriman				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	43	6195676	2001-02-27	Spix et al.					
	44	6199133	2001-03-06	Schnell					
	45	6201807	2001-03-18	Prasanna					
	46	6212542	2001-04-03	Kahle et al.					
	47	6212611	2001-04-03	Nizar et al.					
الملا	48	6216220	2001-04-10	Hwang					7
V	49	6223207	2001-04-24	Lucovsky et al.					
AL	50	6009505	1999-12-28	Thayer et al.					1

Examiner Name	Date
/Aimee Li/	03/05/2007

### Electronic Version v18

Stylesheet Version v18.0

Title of Invention

METHOD AND APPARATUS FOR PROVIDING LARGE
REGISTER ADDRESS SPACE WHILE MAXIMIZING CYCLETIME
PERFORMANCE FOR A MULTI-THREADED REGISTER FILE SET

Application Number:

09/760509

Confirmation Number:

2157

First Named Applicant:

Gilbert Wolrich

Attorney Docket Number:

10559-317001

Art Unit:

2183

Examiner:

Barry J. OBrien

Search string:

(5568617 or 5574922 or 5574939 or 5592622 or 5606676 or 5613071 or 5613136 or 5623489 or 5627829 or 5630130 or 5644623 or 5649157 or 5659722 or 5680641

or 5689566 or 5692167 or 5699537 or 5717898 or 5721870 or 5742587 or 5742782

or 5742822 or 5745913 or 5751987 or 5761507 or 5761522 or 5781774 or 5784649

or 5784712 or 5796413 or 5797043 or 5809235 or 5809530 or 5812839 or 5812868

or 5828746 or 5828863 or 5832215 or 5835755 or 5854922 or 5860158 or 5886992

or 5887134 or 5890208 or 5892979 or 5905876 or 5905889 or 5915123 or 5933627

or 5659687 ).pn

### **US Patent Documents**

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
AL	1	5568617	1996-10-22	Kametani	\		
	2	5574922	1996-11-12	James			
	3	5574939	1996-11-12	Keckler et al.			
	4	5592622	1997-01-07	Isfeld et al.	7		
	5	5606676	1997-02-25	Grochowski et al.			
	6	5613071	1997-03-18	Rankin et al.			
	7	5613136	1997-03-18	Casavant et al.			
	8	5623489	1997-04-22	Cotton et al.	_	. \	
	9	5627829	1997-05-06	Gleeson et al.			
	10	5630130	1997-05-13	Perotto et al.			
	11	5644623	1997-07-01	Gulledge			
	12	5649157	1997-07-15	Williams			
	13	5659722	1997-08-19	Blaner et al.			
	14	5680641	1997-10-21	Sidman			
	15	5689566	1997-11-18	Nguyen			
V	16	5692167	1997-11-25	Grochowski et al.			
AL	17	5699537	1997-12-16	Sharangpani et			

L .				al.	1		
AL	18	5717898	1998-02-10	Kagan et al.	1		
	19	5721870	1998-02-24	Matsumoto			
	20	5742587	1998-04-21	Zornig et al.			
	21	5742782	1998-04-21	Ito et al.			
	22	5742822	1998-04-21	Motomura			
	23	5745913	1998-04-28	Pattin et al.			
	24	5751987	1998-04-12	Mahant Shetti et			
				al.			
	25	5761507	1998-06-02	Govett	\		
L	26	5761522	1998-06-02	Hisanaga et al.		\	
	27	5781774	1998-07-14	Krick			
	28	5784649	1998-07-21	Begur et al.			
	29	5784712	1998-07-21	Byers et al.			
	30	5796413	1998-08-18	Shipp et al.			
	31	5797043	1998-08-18	Lewis et al.			
	32	5809235	1998-09-15	Sharma et al.			
	33	5809530	1998-09-15	Samra et al.			
	34	5812839	1998-09-22	Hoyt et al.			
	35	5812868	1998-09-22	Moyer et al.		1	
	36	5828746	1998-10-27	Ardon			
	37	5828863	1998-10-27	Barrett et al.			
	38	5832215	1998-11-03	Kato et al.			1
	39	5835755	1998-11-10	Stellwagen Jr.			
	40	5854922	1998-12-29	Gravenstein et			
$oldsymbol{\perp}$				al.			
丄	41	5860158	1999-01-12	Pai et al.			
	42	5886992	1999-03-23	Raatikainen et al.			
	43	5887134	1999-03-23	Ebrahim			
+	44	5890208	1999-03-30	Kwon			
1	45	5892979	1999-04-06	Shiraki et al.			<del></del>
十	46	5905876	1999-05-18	Pawlowski et al.			
lacksquare	47	5905889	1999-05-18	Wilhelm Jr.			<del>-  </del>
AL	48	5915123	1999-06-22	Mirsky et al.			
	49	5933627	1000 08 03	Parady			
AL	50	5659687	1997-08-19	Kim et al.			

Examiner Name	Date		
/Aimee Li/	03/05/2007		

Electronic Version v18

Stylesheet Version v18.0

Title of Invention

METHOD AND APPARATUS FOR PROVIDING LARGE REGISTER ADDRESS SPACE WHILE MAXIMIZING CYCLETIME PERFORMANCE FOR A MULTI-THREADED REGISTER FILE SET

Application Number:

09/760509

. 2157

Confirmation Number: First Named Applicant:

Gilbert Wolrich

Attorney Docket Number:

10559-317001

Art Unit:

2183

Examiner:

Barry J. OBrien

Search string:

( 3373408 or 3478322 or 3792441 or 3913074 or 3940745 or 4130890 or 4392758 or 4400770 or 4514807 or 4523272 or 4724521 or 4745544 or 4777587 or 4866664 or 5073864 or 5140685 or 5142683 or 5155831 or 5155854 or 5168555 or 5173897 or 5255239 or 5263169 or 5347648 or 5357617 or 5367678 or 5390329 or 5392391 or 5392411 or 5392412 or 5404464 or 5404482 or 5428809 or 5432918 or 5442756 or 5448702 or 5450351 or 5452437 or 5459842 or 5463625 or 5467452 or 5481683 or 5487159 or 5517628 or 5517648 or 5542070 or 5542088 or 5544236 or 5550816 or 5557766 or 20020053017 or 20020056037 or 20030041228 or 20030145159 or 20030191866 or 20040039895 or 20040054880 or 20040071152 or 20040073728

or 20040073778 or 20040098496 or 20040109369 or 20040205747 ).pn

### **US Patent Documents**

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
AL	1	3373408	1968-03-12	Ling	\		
	2	3478322	1969-11-11	Evans			
	3	3792441	1974-02-12	Wymore et al.			
	4	3913074	1975-10-14	Homberg et al.			
	5	3940745	1976-02-24	Sajeva			
	6	4130890	1978-12-19	Adam			
	7	4392758	1983-07-12	Bowles et al.			
	8	4400770	1983-08-23	Chan et al.			
	9	4514807	1985-04-30	Nogi			
	10	4523272	1985-06-11	Fukunaga et al.			
	11	4724521	1988-02-09	Carron et al.			
	12	4745544	1988-05-17	Renner et al.			
V	13	4777587	1988-10-11	Case et al.			
AL	14	4866664	1989-09-12	Burkhardt Jr. et			
ΑL				al			

7	AĽ	15	5073864	1991-12-17	Methvin et al.	1		
		16	5140685	1992-08-18	Sipple et al.			
	П	17	5142683	1992-08-25	Burkhardt Jr. et			
L	Ш				al.			
		18	5155831	1992-10-13	Emma et al.			
		19	5155854	1992-10-13	Flynn et al.			
		20	5168555	1992-12-01	Byers et al.			
		21	5173897	1992-12-22	Schrodi et al.			:
		22	5255239	1993-10-19	Taborn et al.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
		23	5263169	1993-11-16	Genusov et al.	\		
		24	5347648	1994-09-13	Stamm et al.			
		25	5357617	1994-10-18	Davis et al.			
		26	5367678	1994-11-22	Lee et al.			
		27	5390329	1995-02-14	Gaertner et al.			
		28	5392391	1995-02-21	Caulk Jr. et al.			
		29	5392411	1995-02-21	Ozaki		1	
	П	30	5392412	1995-02-21	McKenna		\	
	П	31	5404464	1995-04-04	Bennett			
	П	32	5404482	1995-04-04	Stamm et al.			
		33	5428809	1995-06-27	Coffin et al.			
		34	5432918	1995-07-11	Stamm			
	П	35	5442756	1995-08-15	Grochowski et al.			
		36	5448702	1995-09-05	Garcia Jr. et al.			
		37	5450351	1995-09-12	Heddes		1	
		38	5452437	1995-09-19	Richey et al.			
		39	5459842	1995-10-17	Begun et al.			<b>T</b>
		40	5463625	1995-10-31	Yasrebi			
		41	5467452	1995-11-14	Blum et al.			7
		42	5481683	1996-01-02	Karim			
		43	5487159	1996-01-23	Byers et al.			
		44	5517628	1996-05-14	Morrison et al.			
		45	5517648	1996-05-14	Bertone et al.			
		46	5542070	1996-07-30	LeBlanc et al.			
		47	5542088	1996-07-30	Jennings Jr. et al.			
		48	5544236	1996-08-06	Andruska et al.			
1		49	5550816	1996-08-27	Hardwick et al.			<del>                                     </del>
P	Ţ	50	5557766	1996-09-17	Takiguchi et al.			1

# **US Published Applications**

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	· Kind	Class	Subclass	ĺ
AL	1	20020053017	2002-05-02	Adiletta et al.				
AL	2	20020056037	2002-05-09	Wolrich et al.				ĺ
 AL	3	20030041228	2003-02-27	Rosenbluth et al.				

7	AT.	4	20030145159	2003-07-31	Adiletta et al.	[	
		5	20030191866	2003-10-09	Wolrich et al.		
		6	20040039895	2004-02-26	Wolrich et al.		
		7	20040054880	2004-03-18	Bernstein et al.		
		8	20040071152	2004-04-15	Wolrich et al.		
П		9	20040073728	2004-04-15	Wolrich et al.		
		10	20040073778	2004-04-15	Adiletta et al.		
$\Box$		11	20040098496	2004-05-20	Wolrich et al.		
7		12	20040109369	2004-06-10	Wolrich et al.		
[ ]	AL	13	20040205747	2004-10-14	Bernstein et al.		

Examiner Name	Date		
/Aimee Li/	03/05/2007		